

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING**

### **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/571,989  
Source: EFWO  
Date Processed by STIC: 12/13/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

**ERROR DETECTED**

### SUGGESTED CORRECTION

**SERIAL NUMBER:**

10/571,989

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

- |          |                                    |  |
|----------|------------------------------------|--|
| 1 _____  | Wrapped Nucleics<br>Wrapped Aminos | The number/text at the end of each line “wrapped” down to the next line. This may occur if your file was retrieved in a word processor <b>after</b> creating it. Please adjust your right margin to .3; this will prevent “wrapping.”  |
| 2 _____  | Invalid Line Length                | The rules require that a line <b>not exceed</b> 72 characters in length. This includes white spaces.   |
| 3 _____  | Misaligned Amino<br>Numbering      | The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.   |
| 4 _____  | Non-ASCII                          | The submitted file was <b>not</b> saved in ASCII(DOS) text, as <b>required</b> by the Sequence Rules. <b>Please ensure your subsequent submission is saved in ASCII text.</b>  |
| 5 _____  | Variable Length                    | Sequence(s)_____contain n’s or Xaa’s representing more than one residue. <b>Per Sequence Rules, each n or Xaa can only represent a single residue.</b> Please present the <b>maximum</b> number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.   |
| 6 _____  | PatentIn 2.0<br>“bug”              | A “bug” in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>   |
| 7 _____  | Skipped Sequences<br>(OLD RULES)   | Sequence(s) _____ missing. If intentional, please insert the following lines for <b>each</b> skipped sequence:<br>(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)<br>(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)<br>(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)<br>This sequence is intentionally skipped<br>Please also adjust the “(ii) NUMBER OF SEQUENCES:” response to <b>include</b> the skipped sequences. |
| 8 _____  | Skipped Sequences<br>(NEW RULES)   | Sequence(s) _____ missing. If <b>intentional</b> , please insert the following lines for <b>each</b> skipped sequence.<br><210> sequence id number<br><400> sequence id number<br>000  |
| 9 _____  | Use of n’s or Xaa’s<br>(NEW RULES) | Use of n’s and/or Xaa’s have been detected in the Sequence Listing.<br>Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n’s or Xaa’s are present.<br>In <220> to <223> section, please explain location of <b>n</b> or <b>Xaa</b> , and which residue <b>n</b> or <b>Xaa</b> represents.  |
| 10 _____ | Invalid <213><br>Response          | Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence. (see item 11 below)   |
| 11 _____ | Use of <220>                       | <del>Sequence(s) _____ missing the &lt;220&gt; “Feature” and associated numeric identifiers and responses. Use of &lt;220&gt; to &lt;223&gt; is MANDATORY if &lt;213&gt; “Organism” response is “Artificial Sequence” or “Unknown.” Please explain source of genetic material in &lt;220&gt; to &lt;223&gt; section or use “chemically synthesized” as explanation. (See “Federal Register,” 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules</del>                              |
| 12 _____ | PatentIn 2.0<br>“bug”              | Please do not use “Copy to Disk” function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use “File Manager” or any other manual means to copy file to floppy disk.  |
| 13 _____ | Misuse of n/Xaa                    | “n” can <b>only</b> represent a single <u>nucleotide</u> ; “Xaa” can <b>only</b> represent a single <u>amino acid</u>  |



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/571,989

DATE: 12/13/2006

TIME: 13:18:25

Input Set : A:\clev200023.txt

Output Set: N:\CRF4\12132006\J571989.raw

3 <110> APPLICANT: Cleveland State University  
 5 <120> TITLE OF INVENTION: EXOSITE-DIRECTED THROMBIN INHIBITORS  
 7 <130> FILE REFERENCE: CLEV200023  
 9 <140> CURRENT APPLICATION NUMBER: US 10/571,989  
 C--> 10 <141> CURRENT FILING DATE: 2006-03-13  
 12 <150> PRIOR APPLICATION NUMBER: PCT/US04/021487  
 13 <151> PRIOR FILING DATE: 2004-07-01  
 15 <150> PRIOR APPLICATION NUMBER: US 60/502186  
 16 <151> PRIOR FILING DATE: 2003-09-12  
 18 <160> NUMBER OF SEQ ID NOS: 25  
 20 <170> SOFTWARE: PatentIn version 3.2  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 30  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: Homo sapiens  
 27 <400> SEQUENCE: 1  
 29 Lys Met His Asp Arg Leu Glu Pro Gln Asp Glu Glu Ser Asp Ala Asp  
 30 1 5 10 15  
 33 Tyr Asp Tyr Gln Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg  
 34 20 25 30  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 10  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Homo sapiens  
 42 <400> SEQUENCE: 2  
 44 Lys Met His Asp Arg Leu Glu Pro Glu Asp  
 45 1 5 10  
 48 <210> SEQ ID NO: 3  
 49 <211> LENGTH: 10  
 50 <212> TYPE: PRT  
 51 <213> ORGANISM: Homo sapiens  
 53 <400> SEQUENCE: 3  
 55 Leu Glu Pro Glu Asp Glu Glu Ser Asp Ala  
 56 1 5 10  
 59 <210> SEQ ID NO: 4  
 60 <211> LENGTH: 10  
 61 <212> TYPE: PRT  
 62 <213> ORGANISM: Homo sapiens  
 64 <400> SEQUENCE: 4  
 66 Glu Glu Ser Asp Ala Asp Tyr Asp Tyr Gln  
 67 1 5 10  
 70 <210> SEQ ID NO: 5  
 71 <211> LENGTH: 10

Does Not Comply  
 Corrected Diskette Needed  
 Cp8-2,3,4

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/571,989

DATE: 12/13/2006

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Input Set : A:\clev200023.txt

Output Set: N:\CRF4\12132006\J571989.raw

72 <212> TYPE: PRT  
 73 <213> ORGANISM: Homo sapiens  
 75 <400> SEQUENCE: 5  
 77 Asp Tyr Asp Tyr Gln Asn Arg Leu Ala Ala  
 78 1 5 10  
 81 <210> SEQ ID NO: 6  
 82 <211> LENGTH: 10  
 83 <212> TYPE: PRT  
 84 <213> ORGANISM: Homo sapiens  
 86 <400> SEQUENCE: 6  
 88 Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg  
 89 1 5 10  
 92 <210> SEQ ID NO: 7  
 93 <211> LENGTH: 5  
 94 <212> TYPE: PRT  
 95 <213> ORGANISM: Artificial  
 97 <220> FEATURE:  
 98 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 2 IS SULFONATED (-SO3-2)  
 100 <400> SEQUENCE: 7  
 102 Asp Tyr Asp Tyr Gln  
 103 1 5  
 106 <210> SEQ ID NO: 8  
 107 <211> LENGTH: 5  
 108 <212> TYPE: PRT  
 109 <213> ORGANISM: Artificial  
 111 <220> FEATURE:  
 112 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 4 IS SULFONATED (-SO3-2)  
 114 <400> SEQUENCE: 8  
 116 Asp Tyr Asp Tyr Gln  
 117 1 5  
 120 <210> SEQ ID NO: 9  
 121 <211> LENGTH: 5  
 122 <212> TYPE: PRT  
 123 <213> ORGANISM: Artificial  
 125 <220> FEATURE:  
 126 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATIONS 2 AND 4 ARE SULFONATED (-SO3-2)  
 128 <400> SEQUENCE: 9  
 130 Asp Tyr Asp Tyr Gln  
 131 1 5  
 134 <210> SEQ ID NO: 10  
 135 <211> LENGTH: 4  
 136 <212> TYPE: PRT  
 137 <213> ORGANISM: Homo sapiens  
 139 <400> SEQUENCE: 10  
 141 Asp Tyr Asp Tyr  
 142 1  
 145 <210> SEQ ID NO: 11  
 146 <211> LENGTH: 5  
 147 <212> TYPE: PRT

If 12137 Responses are Artificial  
 or Unknown, pls explain the  
 source of genetic material.  
 See 9/15/06

on  
 error  
 summary  
 sheet.

Same Error

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/571,989

DATE: 12/13/2006

TIME: 13:18:25

Input Set : A:\clev200023.txt

Output Set: N:\CRF4\12132006\J571989.raw

148 <213> ORGANISM: Homo sapiens  
 150 <400> SEQUENCE: 11  
 152 Asp Tyr Asp Tyr Gln  
 153 1 5  
 156 <210> SEQ ID NO: 12  
 157 <211> LENGTH: 4  
 158 <212> TYPE: PRT  
 159 <213> ORGANISM: Artificial *→ Same Error*  
 161 <220> FEATURE:  
 162 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 2 IS SULFONATED (-SO3-2)  
 164 <400> SEQUENCE: 12  
 166 Asp Tyr Asp Tyr  
 167 1  
 170 <210> SEQ ID NO: 13  
 171 <211> LENGTH: 4  
 172 <212> TYPE: PRT  
 173 <213> ORGANISM: Artificial  
 175 <220> FEATURE:  
 176 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 4 IS SULFONATED (-SO3-2)  
 178 <400> SEQUENCE: 13  
 180 Asp Tyr Asp Tyr  
 181 1  
 184 <210> SEQ ID NO: 14  
 185 <211> LENGTH: 4  
 186 <212> TYPE: PRT  
 187 <213> ORGANISM: Artificial  
 189 <220> FEATURE:  
 190 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATIONS 2 AND 4 ARE SULFONATED (-SO3-2)  
 192 <400> SEQUENCE: 14  
 194 Asp Tyr Asp Tyr  
 195 1  
 198 <210> SEQ ID NO: 15  
 199 <211> LENGTH: 23  
 200 <212> TYPE: DNA  
 201 <213> ORGANISM: Homo sapiens  
 203 <400> SEQUENCE: 15  
 204 gagtgatgct aagtttgatt acc 23  
 207 <210> SEQ ID NO: 16  
 208 <211> LENGTH: 23  
 209 <212> TYPE: DNA  
 210 <213> ORGANISM: Homo sapiens  
 212 <400> SEQUENCE: 16  
 213 ggtaatcaaa ctttagcatca ctc 23  
 216 <210> SEQ ID NO: 17  
 217 <211> LENGTH: 18  
 218 <212> TYPE: DNA  
 219 <213> ORGANISM: Homo sapiens  
 221 <400> SEQUENCE: 17  
 222 catggagtga ccttctcg 18

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/571,989

DATE: 12/13/2006

TIME: 13:18:25

Input Set : A:\clev200023.txt

Output Set: N:\CRF4\12132006\J571989.raw

225 <210> SEQ ID NO: 18  
 226 <211> LENGTH: 15  
 227 <212> TYPE: DNA  
 228 <213> ORGANISM: Homo sapiens  
 230 <400> SEQUENCE: 18  
 231 tcatccagga gaacc 15  
 234 <210> SEQ ID NO: 19  
 235 <211> LENGTH: 28  
 236 <212> TYPE: DNA  
 237 <213> ORGANISM: Homo sapiens  
 239 <400> SEQUENCE: 19  
 240 gctaagttta agttccagaa cagactgg 28  
 243 <210> SEQ ID NO: 20  
 244 <211> LENGTH: 28  
 245 <212> TYPE: DNA  
 246 <213> ORGANISM: Homo sapiens  
 248 <400> SEQUENCE: 20  
 249 ccagtctgtt ctggaactta aacttagc 28  
 252 <210> SEQ ID NO: 21  
 253 <211> LENGTH: 13  
 254 <212> TYPE: PRT  
 255 <213> ORGANISM: Artificial  
 257 <220> FEATURE:  
 258 <223> OTHER INFORMATION: NO COMMENT  
 260 <400> SEQUENCE: 21  
 262 Asp Tyr Gln Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg  
 263 1 5 10  
 266 <210> SEQ ID NO: 22  
 267 <211> LENGTH: 15  
 268 <212> TYPE: PRT  
 269 <213> ORGANISM: Artificial  
 271 <220> FEATURE:  
 272 <223> OTHER INFORMATION: NO COMMENT  
 274 <400> SEQUENCE: 22  
 276 Pro Val Ile Pro Ala Asn Met Asp Lys Lys Tyr Arg Ser Gln His  
 277 1 5 10 15  
 280 <210> SEQ ID NO: 23  
 281 <211> LENGTH: 42  
 282 <212> TYPE: PRT  
 283 <213> ORGANISM: Homo sapiens  
 285 <400> SEQUENCE: 23  
 287 Asn Leu Lys Lys Ile Thr Arg Glu Gln Arg Arg His Met Lys Arg Trp  
 288 1 5 10 15  
 291 Glu Tyr Phe Ile Ala Ala Glu Glu Val Ile Trp Asp Tyr Ala Pro Val  
 292 20 25 30  
 295 Ile Pro Ala Asn Met Asp Lys Lys Tyr Arg  
 296 35 40  
 299 <210> SEQ ID NO: 24  
 300 <211> LENGTH: 9

7 Same Error

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/571,989

DATE: 12/13/2006

TIME: 13:18:25

Input Set : A:\clev200023.txt

Output Set: N:\CRF4\12132006\J571989.raw

301 <212> TYPE: PRT  
302 <213> ORGANISM: Homo sapiens  
304 <400> SEQUENCE: 24  
306 Glu Tyr Phe Ile Ala Ala Glu Glu Val  
307 1 5  
310 <210> SEQ ID NO: 25  
311 <211> LENGTH: 5  
312 <212> TYPE: PRT  
313 <213> ORGANISM: Homo sapiens  
315 <400> SEQUENCE: 25  
317 Glu Tyr Phe Ile Ala  
318 1 5



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/571,989

DATE: 12/13/2006  
TIME: 13:18:26

Input Set : A:\clev200023.txt  
Output Set: N:\CRF4\12132006\J571989.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9,12,13,14,21,22



VERIFICATION SUMMARY

PATENT APPLICATION: US/10/571,989

DATE: 12/13/2006

TIME: 13:18:26

Input Set : A:\clev200023.txt

Output Set: N:\CRF4\12132006\J571989.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date